

# Low Voltage XLPE Control Cables

## 1kV 19 core Unarmoured

**Description:** 19 Core Cu XLPE FRPVC, 1000 V  
19 Core Cu XLPE LHFRPVC, 1000 V

**F2CC Bnnn ZZ 001 0K0S**  
**F2CC Bnnn ZZ 002 0K0S**

**Specification:** SANS 1507

*Last updated: January 2026*

PHYSICAL	...Bnnn	B915	B925	B004
Conductor size	mm <sup>2</sup> nom	1,5	2,5	4
Conductor diameter	mm app	1,6	2,1	2,6
Insulation diameter	mm app	3,0	3,5	4,0
Bedding diameter	mm app	15,4	17,8	20,4
Cable diameter	mm app	19,3	21,7	24,7
Length of cable on a drum	m	500	500	500
Cable mass (approximate)	kg/m app	0,5	0,7	1,0
Gross mass on drum	kg app	299	395	562
Bending radius	mm min	155	174	198
ELECTRICAL				
DC Resistance @ 20 °C	Ω/km	12,100	7,410	4,610
AC Resistance @ 90 °C	Ω/km	15,429	9,448	5,878
Reactance X+	Ω/km	0,124	0,112	0,107
Impedance Z+	Ω/km	15,429	9,449	5,879
CURRENT RATINGS				
Ground	Amps	14	19	24
110 Ducts in ground	Amps	11	15	19
Air in Shade	Amps	13	18	23
Air in sunlight	Amps	12	15	10
SHORT CIRCUIT RATING				
Symmetrical (250 °C)	kA (1 sec)	0,15	0,25	0,40
(Three Phase) Volt Drop	mV/A/m	26,7	16,4	10,2

\* In practice the earth fault rating must be limited to symmetrical fault rating,

Note ratings assume that all conductors carry equal currents simultaneously

**The current ratings above are based on standard laying conditions for a single circuit in isolation as follows:**

- Conductor temperature = 90 °C
- Soil thermal resistivity = 1,2 K·m/W
- Soil temperature = 25 °C
- Air temperature = 30 °C
- Depth of burial = 500 mm
- 5% tolerance on dimensions



DISCLAIMER: CBI reserves the right to change product specifications from time to time to effect improvements and /or enhancements and accepts no liability arising from any difference between the published parameters of this data sheet and the finished product, unless by prior written agreement,

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